

suppressor genes, selectable markers, and histochemical markers.

23. (Amended) A transgenic mouse comprising a genome which contains a Flp transgene and a Flp-recognition sequence, wherein the Flp-recognition site has undergone Flp-catalyzed recombination.

41. (Amended) The method according to claim 24, wherein Flp-mediated recombination activates ectopic expression of a [developmental] gene controlling differentiation of a cell or development of an organism.

42. (Amended) The method according to claim 24, wherein Flp-mediated recombination inactivates post-embryonic expression of a [developmental] gene controlling [required for] embryonic development of the transgenic mouse.

47. (Amended) The system of claim 45, wherein the purified nucleic acid further comprises a sequence selected from the group consisting of [developmental gene] genes controlling differentiation of a cell or development of an organism, [essential gene] genes required for viability of a cell or organism, cytokine genes, neurotransmitter [gene,] or neurotransmitter receptor genes, oncogenes, tumor suppressor genes, selectable markers, and histochemical markers.